

# Air Force Materiel Command

*Birthplace, Home and Future of Aerospace*



## Training Systems Product Group (TSPG)

Ms Carol Zelczak  
677<sup>th</sup> AESG/DD  
19 June 2008

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***Integrity ★ Service ★ Excellence***

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# Overview

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- Training Systems Product Group
  - Current AF Challenges
  - 3 Things We Need from Industry
- Business Forecast
  - Acquisition Programs
  - Sustainment Programs
  - Laboratory Programs





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# Training Systems Product Group



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**Mission: Lead the development, acquisition and sustainment effort necessary to meet every MAJCOM's simulation and training requirement**

## TSPG ORGANIZATION

LAB (AFRL/RHA)  
ACQUISITION (677 AESG)  
SUSTAINMENT (507 ACSS)  
**Total**

**FY 08 BUDGET**  
\$51M  
\$435M  
**\$528M**  
**\$1.014B**



## EXAMPLE CUSTOMERS

**Air Force:** ACC, AMC, AETC, AFSOC, Guard, Reserve

**Other DoD:** Navy, Marines, Army, JFCOM, SOCOM, DARPA

**Other US Govt:** FAA

**Other Nations:** UK, Canada, RSAF, Egypt, Australia, Greece, Poland, Belgium, Norway

## EXAMPLE PROGRAMS

**Simulation & Trng Systems for:**  
CAF DMO, B-1, B-2, Predator, JSF, F-15, F-16, F-22, C-17, C-130J, KC-10, E-3, KC-135, KC-X, JCA, MH-53, TH-1H, T-1, JTCTRS (JTAC)

**Science and Technology for:**  
learning, decisionmaking, human performance, C2, AOC, LVC, JTAC, immersive environments, distributed mission planning/ execution/debrief



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# Training Systems Product Group



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## What is the TSPG?

An umbrella term to describe the Air Force organizations that support warfighter training through the use of modeling and simulation techniques. Collectively, we provide the warfighter with a full range of training system lifecycle support.



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# Training Systems Product Group



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**Air Force Research Laboratory**  
Warfighter Research Readiness Div  
Mesa, AZ



**Aeronautical Systems Center**  
677 Aeronautical Systems Group  
WPAFB, OH

**Ogden Air Logistics Center**  
507 Aircraft Sustainment Squadron  
Hill AFB, UT



MOA relationship with **Air Force Agency for Modeling & Simulation**  
provides TSPG connection to Air Force M&S policy implementation and integration  
Orlando, FL



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# Current AF Challenges

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## Rising Costs

- Operating costs ↑179% over 10 yrs
- Personnel costs ↑57% over 10 yrs while end-strength ↓8%
- Health care costs tripled per active-duty member since 1988
- Defense spending at 3.3% of GDP, lowest ever in time of war

## Operations Tempo

- **16 years of sustained combat ops**
- 35,000 Airmen deployed
- 1 mobility a/c take-off every 90 sec
- Same flying hrs in '06 as '93 but with 1,280 fewer aircraft
- Readiness down 17% since 2001

## Fuel Price Instability

- AF's overall fuel cost fluctuates ~\$600M each \$10 change per barrel
- **AF fuel costs more than doubled since 2004 (from \$2.8B to \$6.2B)** with little change in consumption
- DoD standard price for a gallon of JP-8 from \$1.10 to \$2.87 over 3 yrs

## Equipment

- **Avg aircraft age 24 yrs (9 yrs in '71)**
- 14% of fleet grounded or restricted
- **Investment funds ↓19% over 22 yrs**
- F-16 depot requests ↑77% from '01 ... AC-130 depot requests ↑37% from '05 to '06 ... A-10 structures-related requests ↑49% since '03

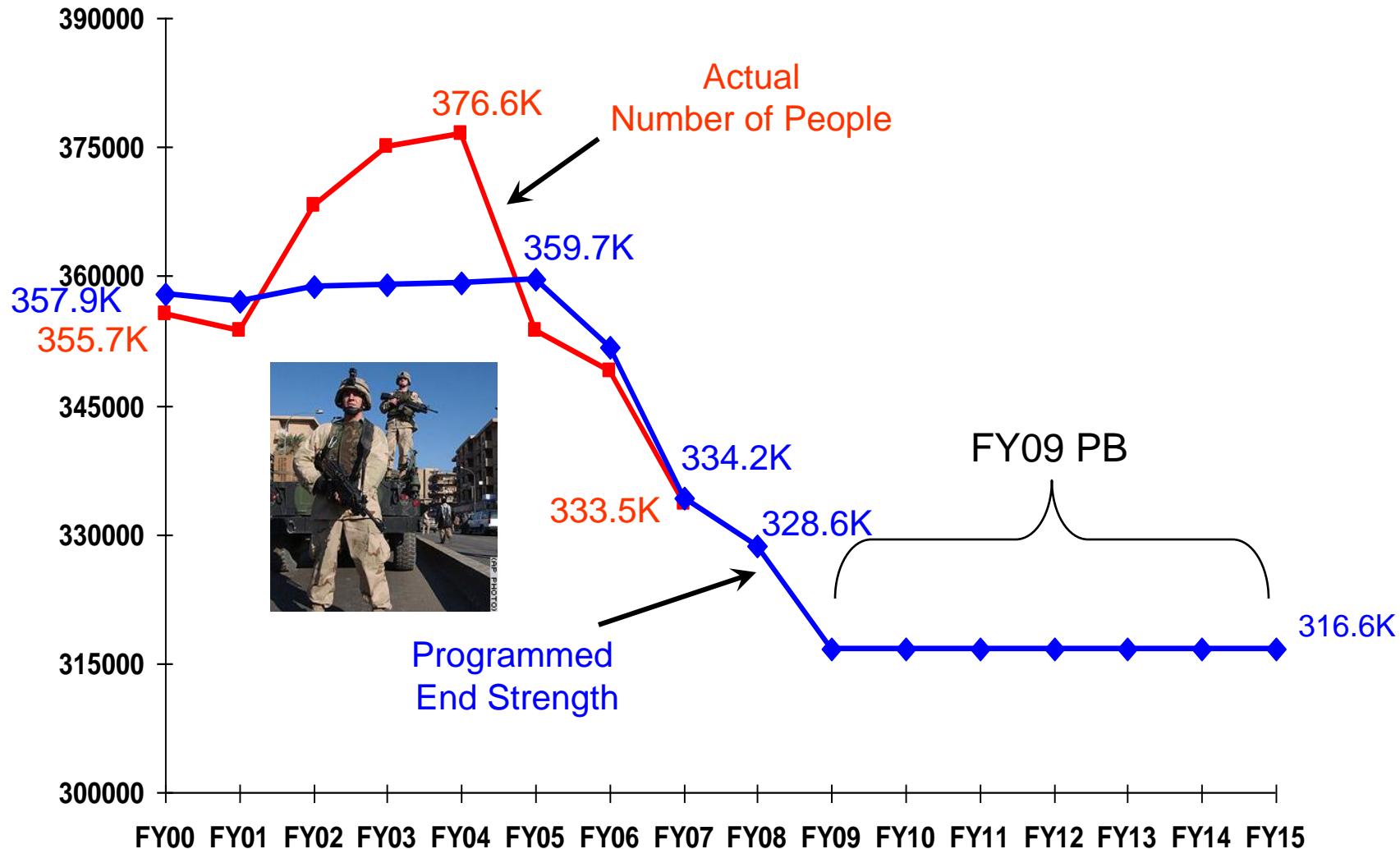


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# End Strength and People As of Current FY09 President's Budget



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# What We Need from Industry



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- Achievable Solutions
  - We are all too focused on technology; need to provide capability, on cost & on time
- Improved Proposal Quality
  - Disjointed; changes not clearly marked; waste time requesting additional explanation
- Government/Industry Partnership
  - Limited people; increasing workload—demand a new paradigm



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# Near-Term Business Forecast

677 AESG (Simulator Systems Group)  
Wright-Patterson AFB



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# Planned Acquisitions

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- ACC & DMO Programs Division
  - Joint Theater Air Ground Simulation System (JTAGSS)
  - F-15C
- Mobility & FMS Programs Division
  - C-17
  - C-130J
  - KC-45
  - FMS

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# Joint Theater Air Ground Simulation System (JTAGSS)



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Description	
<p>USAF JCAS virtual &amp; constructive sim system; link to USA C2 systems for recurring Joint Fires training</p> <p>Stimulate actual C2 systems using simulation w/common terrain databases</p> <p>Network ASOC &amp; TACP trainers with Fire Support Cell and Airspace C2 for combined battle staff training</p> <p>Network JTAC trainer for coordinated virtual Joint Fires training</p> <p>Train joint team on JCAS process; use intelligent agents to fill C2 functional gaps where appropriate</p> <p>Review and performance measurement AAR capability</p>	
Acquisition Strategy	Funding
<p>Contract type: TBD based on market research</p> <p>Competitive Environment: TBD based on market research</p> <p>Number of Awards: TBD based on strategy</p>	Currently unfunded. To be addressed in FY10 POM
Program Office Point of Contact	Procurement Authority Point of Contact
<p>Name: Major Michael Conway</p> <p>Organization: 677 AESG/TO</p> <p>Phone: 937-255-8799</p> <p>Email: Michael.Conway@wpafb.af.mil</p>	<p>Name: Ms. Charlene Jeong</p> <p>Organization: 677 AESG/TO</p> <p>Phone: 937-255-4955</p> <p>Email: Charlene.Jeong@wpafba.f.mil</p>
Period of Performance	Data Status
TBD. Will probably not start any earlier than FY10.	TBD
Milestones	
<p>FY10 - Connect JTAC and CAS aircraft trainers with ASOC training system (JTAGSS) and USA FSC &amp; AC2</p> <p>FY11 - Add AOC to training network</p> <p>FY12 - Full Live-Virtual-Constructive Joint Fires training capability in a Joint National Training Capability environment</p>	



# F-15C Mission Training Center (MTC)

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Description	<p>The F-15C MTC program consists of simulation system capability provided through the use of an MTC that contains high fidelity cockpits, instructor/operator stations, brief/debrief capabilities, threat stations, command and control stations, a realistic combat environment and DMO Network capability. The ACC aircrews may perform any or all functions identified in the Master Training Task List associated with flying solo or multi-ship missions from mission planning through mission debrief. The capability to simulate all functions associated with all aspects of full spectrum F-15C training and wartime missions are present.</p>		
Acquisition Strategy	<p><b>Competition</b> <b>Source Selection for Services Contract</b></p>		
Program Office Point of Contact	<p>Name: Capt Aaron Buck Organization: 677 AESG/TO Phone: 927-255-2861 Email: aaron.buck@wpafb.af.mil</p>		
Period of Performance	<p><b>11/12 Start of Service</b> <b>Minimum of 3 years with additional follow on years</b></p>		
Milestones	<p>Released RFI 4/08 Industry Day 8/08</p>		
Funding	<p><b>Estimate \$190M over life of contract</b></p>		
Procurement Authority Point of Contact	<p>Name: Kimberly Henderson Organization: 677 AESG/TO Phone: 937-255-3954 Email: kimberly.henderson@wpafb.af.mil</p>		
Data Status	<p><b>N/A for services contract</b></p>		



# F-15C Mission Training Center (MTC)

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## Summary of Program Requirements

A high fidelity, simulated combat environment integrated with simulations of all avionics and weapons systems, programmed or interactive threat aircraft, gunnery, air-to-air and surface-to-air missiles, electronic countermeasures, communications networks, command and control structures, atmospherics, and DMO Network capability. Types of devices – cockpits, instructor/operator station, brief/debrief.  
Anticipated Installations - Langley AFB (4 ship), Elmendorf AFB (4 ship), RAF Lakenheath (2 ship + 2 ship opt), Kadena AB (4 ship), Nellis AFB (2 ship)

## Training Analysis/Requirements Results

Meet ACC Master Training Task List and Roadmap  
Immersive Training Environment  
Full Spectrum Training Capability

## New Technologies/Capabilities Anticipated

State-of-the-Art high-fidelity visual system  
Intelligent Virtual/Constructive Entities (IV/CE)  
F-15C Roadmap requirements

## Critical Performance Issues/Risks

Immersive Training Environment  
Visual & NVIS Cues  
Physical Cues (AOA buffet, Cockpit, HOTAS etc.)  
Aural Cues  
DMO Interoperability and Standard Compliance  
Aircraft and DMO Standards Concurrency  
Participation in DMO Standards Development  
Thorough Brief/Debrief Capability  
Risks: IV/CE, Visuals

## Additional Information

Developing F-15C MTC documentation  
Emphasize Hardware-Software Integration, Engineering Verification Testing, On-site Validation Testing



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# Planned Acquisitions

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- ACC & DMO Programs Division
  - Joint Theater Air Ground Simulation System (JTAGSS)
  - F-15C
- Mobility & FMS Programs Division
  - C-17
  - C-130J
  - KC-45
  - FMS

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# C-17 Training System Sustainment Re-Compete

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<b>Description</b>	
<p><b>Customer:</b> AMC, AETC, AFRES, ANG</p> <p><b>Description:</b> This program is comprised of three components; 1) ATS and MTS Contractor Logistics Support (CLS), 2) ATS Instruction, and 3) ATS and MTS Concurrency Management.</p> <p>-- This will be a combination of the existing ATS and MTS programs; see following charts</p> <p>Production of the devices will continue to reside with the incumbent contractors. This is the only factor that differs from the existing contracts covered on the following two charts.</p>	
<b>Acquisition Strategy</b>	<b>Funding</b>
<b>Full and Open Competition</b> <b>Single Award</b> <b>Conducted outside of TSA</b>	<b>Program Office Estimate in work</b>
<b>Program Office Point of Contact</b>	<b>Procurement Authority Point of Contact</b>
<b>Name:</b> Mr Ricky Fennell <b>Organization:</b> 677 AESG/ <b>Phone:</b> 937-255-2884 <b>Email:</b> <a href="mailto:Ricky.fennell@wpafb.af.mil">Ricky.fennell@wpafb.af.mil</a>	<b>Name:</b> Ms Molly Verbillion <b>Organization:</b> 677 AESG/PK <b>Phone:</b> 937-255-2942 <b>Email:</b> <a href="mailto:molly.verbillion@wpafb.af.mil">molly.verbillion@wpafb.af.mil</a>
<b>Period of Performance</b>	<b>Data Status</b>
<b>FY10 Contract Award</b> <b>Base Year plus Nine One-Year Options</b>	<b>Bidder's Library being assembled</b> <b>Proprietary Data -- TBD</b>
<b>Milestones</b>	
<b>Industry Day @ Altus – 19 Jun 08, Industry Day @ Charleston – 23-24 Jun 08</b>	
<b>Draft RFP – Oct 08, RFP – Jan 09</b>	
<b>Contract Award - Jan 10</b>	



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# C-17 Training System Sustainment Re-Compete



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## Summary of Program Requirements

### Aircrew Training System

Four aspects to the program

- Production of aircrew training devices/aids
- Courseware development and instruction
- Contractor Logistics Support
- Concurrency Management

#### Current Contract

**Company:** Boeing-St Louis  
**Contract Number:** F33657-01-D-2074 (3<sup>rd</sup> contract)  
**Period of Performance:** Jul 01 – Sep 08 (being extended to Mar 10)

#### Original Developer/OEM

**Company:** Boeing-St Louis  
**Date Delivered:** early '90s

#### Current Installations

**Locations:** 10 USAF bases plus RAAF Amberley  
**Number of Devices:** 170 (includes computer-based products up to and including full motion-based trainers)

#### End User Point of Contact

**Name:** Denney Hughes  
**Phone:** 618-229-3583  
**Email:** denney.hughes@scott.af.mil

#### Additional Information

All appropriate program documentation will be provided in the bidder's library (SOW, Specs, etc.) and well as a site visit to Altus will be arranged as a part of the Sustainment Re-Compete program



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# C-17 Training System Sustainment Re-Compete

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Summary of Program Requirements

## Maintenance Training System

**Three aspects to the program**

- Production of the maintenance training devices
- Contractor Logistics Support
- Concurrency Management

Instruction is provided by AETC

Current Contract

**Company:** AAI Services Corp  
**Contract Number:** F33657-D-03-2030 (2<sup>nd</sup> contract)  
**Period of Performance:** Jun 03 – Mar 10

Original Developer/OEM

**Company:** ECC Services Corp  
**Date Delivered:** 1997

Current Installations

**Locations:** 7 USAF bases  
**Number of Devices:** 37

End User Point of Contact

**Name:** TSgt Kurt Melloch  
**Phone:** 618-229-2713  
**Email:** kurt.melloch@scott.af.mil

Additional Information

All appropriate program documentation will be provided in the bidder's library (SOW, Specs, etc.) and well as a site visit to Charleston will be arranged as a part of the Sustainment Re-Compete program



# C-130J MATS Program Status

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## Summary of Program Requirements

### Main program requirements

- Production of the aircrew and maintenance training devices/aids for USAF and USMC
- Training System Support Center to maintain courseware and incorporate minor modifications into training devices
- Provide aircrew instruction for initial, continuous and transition training of C-130J Aircrews
- Contractor Logistics Support
- Concurrency Management for block and out of block modifications

Current Contract	Original Developer/OEM
<b>Company:</b> LM STS <b>Contract Number:</b> C-130 J FA8621-06-C-6300 <b>Period of Performance:</b> Jul 06 – Sep 10	<b>Company:</b> LMA <b>Date Delivered:</b> 2003 (First WST to Keesler AFB)
Current Installations	AMC End User Point of Contact  <b>Name:</b> Jan Schaeuble <b>Phone:</b> 618-229-3581 <b>Email:</b> jan.schaeuble-02@scott.af.mil

## Additional Information

Negotiating with LM STS to procure a System Integration Laboratory to be used for block upgrades to C-130J MATS devices  
Examine potential for re-competition of O&M contract by completing market research in FY09  
Potential New work  
Upon ADM decision, AFSOC interested in obtaining devices for their training requirements  
USAF wants to procure another WST for GWOT requirement



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# KC-45A Tanker Training Systems



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## Description

Provide both an Aircrew Training System (ATS) and Maintenance Training System (MTS) that include training devices, concurrency modifications, courseware with instruction and contractor logistics support (CLS). 677 AESG/TS to contract for a “guaranteed student” for KC-45A aircrew personnel. Will require ACA with KC-45A aircraft prime.

## Acquisition Strategy

ATS and MTS to be full and open competitions resulting in separate awards.  
ATS award 2 yrs after KC-45A aircraft award.  
MTS award 2 yrs after ATS award.  
Anticipate periods of performance of 10+ yrs.

## Funding

3600, 3010, and 3400 funding available for both ATS and MTS.  
Funding estimates not releasable at this time.

## Program Office POC

Name: MSgt Joseph Diurno  
Org: 677 AESG/TS, WPAFB OH  
Phone: 937-255-2603  
E-mail: Joseph.Diurno@wpafb.af.mil

## Procurement Authority POC

Name: \_\_\_\_\_  
Org: \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
PCO not yet designated.  
677 AESG will conduct both procurements.



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# KC-45A Tanker Training Systems



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## Summary of Program Requirements

ATS will be based on aircraft OEM-produced and AMC-approved TSRA.

ATS will include Level D FFS and Boom Operator Trainer (BOT), both integrated via DMO.

ARASQ standard for Aerial Refueling Simulation.

ISD, aircraft concurrency, guaranteed student, and earliest delivery to replace Type 1 training.

FTU will be Altus AFB OK; with 10-12 bases having simulators for continuation training.

Electronic training materials must be SCORM compliant and will be provided to the MTS.

AETC will conduct and AMC will approve the TSRA for MTS.

## Milestones

ATS industry days after KC-45A aircraft PAC, with Industry Day #1 at WPAFB and Industry Day #2 at Altus AFB.

Draft RFP 4-6 months following industry days, RFP when TSRA data available, and ATS contract award up to 2 years after KC-45A aircraft PAC.

MTS TSRA to be completed by AETC after review of preliminary KC-45A technical orders with acquisition of MTS to follow.

## End User POC

Name: Col Timothy Smith

Org: HQ AMC/A3T, Scott AFB IL

Phone: 618-229-2007

E-mail: tim.smith-02@scott.af.mil



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# Foreign Military Sales New Business



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Country	Description	Status	Est. Value	Request Date
Qatar	Boeing TSS C-17 Training System	Pricing & Availability (P&A) out 30 AUG 07	\$51M	LOA TBD
NATO/SAC	Boeing TSS C-17 Training System	P&A out 24 OCT 07	\$29.4M	LOA TBD
Egypt	CAE C-130H Aircrew Simulator	Letter of Offer & Acceptance (LOA) Data out 25 APR 08	\$43M	LOA – 26 AUG 07
Iraq	Lockheed C-130J Aircrew Simulator	P&A out 10 MAR 08	\$49.5M	LOA TBD
Romania	2 F-16 Aircrew & 2 Maintenance Simulators	LOA Data out 7 APR 08	\$62.3M	LOA – 28 NOV 07
Croatia	F-16 Aircrew Simulator	P&A out 27 MAR 08	\$35M	LOA TBD



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# Near-Term Business Forecast

507 Aircraft Sustainment  
Ogden Air Logistics Center

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# Training Systems Business Opportunities

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FY 09-10

A-10 Training Systems CLS

B-52 Aircrew Training Devices CLS

T25 Simulator for Electronic Combat Training CLS

KC-135 Aircrew Training System CLS

C-5 Aircrew Training Systems CLS

C-130 Aircrew Training System CLS





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# A-10 Training Systems

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Description	<ul style="list-style-type: none"><li>• Operation, maintenance, and logistics support of all trainers</li><li>• Modification of the trainers as required for maintaining concurrency with the aircraft</li><li>• Upgrades, enhancements, or the insertion of advanced technology into the trainers for the purpose of maintaining or improving operational safety, suitability (i.e., supportability, availability), and effectiveness (i.e., increased training capabilities).</li><li>• End user is ACC, ANG, AFRC</li></ul>
Acquisition Strategy	<ul style="list-style-type: none"><li>• Full and open competition</li><li>• One year basic with nine option years</li></ul>
Program Office Point of Contact	<p>Name: Lt Allyson Yuss Organization: 507 ACSS/GFLA Phone: 801-586-3886 Email: allyson.yuss@hill.af.mil</p>
Procurement Authority Point of Contact	<p>Name: Susan Simpkins Organization: 558 ACSV/PK Phone: 801-775-3801 Email: susan.simpkins@hill.af.mil</p>
Period of Performance	<ul style="list-style-type: none"><li>• 2010 - 2020</li></ul>
Milestones	<ul style="list-style-type: none"><li>• Industry day, draft RFP, RFP, contract award, etc. are TBD</li></ul>
Data Status	<ul style="list-style-type: none"><li>• Data package complete, no known issues</li></ul>



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# A-10 Training Systems

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## Summary of Program Requirements

- Operation, maintenance, and logistics support of all A-10 trainers
- Modification of the trainers as required in order to maintain concurrency with the aircraft
- Procurement of A-10 Training Systems as needed

Current Contract	Original Developer/OEM
Company: Lockheed Martin Global Systems Contract Number: F33657-01-D-2072 QP01 Period of Performance: 2004 - 2010	Company: Air Force Research Laboratories
Current Installations	End User Point of Contact
Locations: Hands on Throttle and Stick (HOTAS) trainers at DM, Full Mission Trainers (FMT) at 11 locations worldwide Number of Devices: 8 HOTAS, 22 FMTs	Name: Neal Braidwood Phone: 757-764-8760 Email: neal.braidwood@langley.af.mil

## Additional Information

- CLS, modifications, and new development for the A-10 training systems currently on single contract



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# B-52 AircREW Training Devices



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Description	<ul style="list-style-type: none"><li>Contract Logistic Support (CLS) for the B-52 Weapon System Trainer (WST), T4 Electronic Warfare Simulator (EWS), Cockpit Procedure Trainer (CPT) and Offensive Station Mission Trainer (OSMT)</li><li>Support operational requirements of the Training Systems Support Center (TSSC) and develop, procure, manufacture, assemble, package, ship and install all modifications to the Air Crew Training Devices (ATDs)</li><li>A computer rehost for the B-52 WST is anticipated</li><li>The B-52 is undergoing a major communication modification, Combat Network Communications Technology (CONECT). Phase I is expected to be completed by the end of the existing contract. Phase II will be required to be part of the overall competition of this program</li></ul>		
Acquisition Strategy		Funding	
	<ul style="list-style-type: none"><li>Use of existing/planned ID/IQ contract vehicle<ul style="list-style-type: none"><li>- Full and Open</li></ul></li></ul>		<ul style="list-style-type: none"><li>Estimated total contract value \$250M</li></ul>
Program Office Point of Contact	Name: Ted Roos Organization: 507 ACSS/GFLB Phone: 801-777-4711 Email: <a href="mailto:John.Roos@HILL.af.mil">John.Roos@HILL.af.mil</a>	Procurement Authority Point of Contact	Name: Lois Moeglein Organization: 558 ACSS/PK Phone: 801-775-2569 Email: <a href="mailto:Lois.Moeglein@HILL.af.mil">Lois.Moeglein@HILL.af.mil</a>
Period of Performance	<ul style="list-style-type: none"><li>Apr 2010 – Sep 2019</li></ul>		
Milestones	<ul style="list-style-type: none"><li>See next page</li></ul>		



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# B-52 AircREW Training Devices

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## Milestones

### MILESTONE SCHEDULE

- Sources Sought Synopsis/Market Research
- Draft RFP
- Industry Day
- Final RFP
- Contract Award

### DATES

- |         |           |
|---------|-----------|
| 3/2008  | COMPLETED |
| 3/2009  |           |
| 5/2009  |           |
| 9/2009  |           |
| 12/2009 |           |



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# B-52 Aircrew Training Devices



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## Summary of Program Requirements

- Contract includes modifications, upgrades, sustainment, and disposition of B-52 Training System, Offensive System Substation (OSS), Defensive System Substation (DSS), Flight System Substation (FSS), Offensive Station Mission Trainer (OSMT), Cockpit Procedures Trainer (CPT), AN/ALQ T4 Electronic Warfare Simulator (EWS), and operations of the Training System Support Center (TSSC)
- Efforts include but are not limited to: information technology services, design concepts, and management of the TSSC, CLS, engineering analysis, training for database conversion and operation, necessary for training system support as needed
- The modification portion of this contract is for modifications outside the contractual scope of the TSSC

## Current Contract

Company: Rockwell Collins Simulator and Trainer Systems  
Contract Number: F42630-99-D-0244  
Period of Performance: Aug 99 – Mar 2010

## Original Developer/OEM

Company: Singer LINK  
Date Delivered: Unknown

## Current Installations

Locations: Barksdale AFB, LA., Minot AFT, ND  
Number of Devices: 10

## End User Point of Contact

Name: Jeff Burgdorf  
Phone: 318-456-3662  
Email: [Jeffrey.Burgdorf@BARKSDALE.AF.MIL](mailto:Jeffrey.Burgdorf@BARKSDALE.AF.MIL)

## Additional Information



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# T25 Simulator for Electronic Combat Training

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Description	<ul style="list-style-type: none"><li>• Consists of six student stations, a two position instructor console to monitor the student training exercise, and a Training System Support Center (TSSC) for software and training exercise development at Randolph AFB, TX and Pensacola NAS</li><li>• Provide Contractor Logistics Support for the T25 SECT to include on site support, TSSC operation and providing capability to perform Engineering Change Proposals</li></ul>
Acquisition Strategy	<ul style="list-style-type: none"><li>• TSA II or full and open</li></ul>
Funding	<ul style="list-style-type: none"><li>• Estimated total contract value \$10M</li></ul>
Program Office Point of Contact	<p>Name: Craig Snow Organization: 507 ACSS/GFLB Phone: 801-775-5116 Email: <a href="mailto:Craig.Snow@HILL.af.mil">Craig.Snow@HILL.af.mil</a></p>
Procurement Authority Point of Contact	<p>Name: Lori Lloyd Organization: 558 ACSV/PK Phone: 801-777-5813 Email: <a href="mailto:Lori.Lloyd@HILL.af.mil">Lori.Lloyd@HILL.af.mil</a></p>
Period of Performance	<ul style="list-style-type: none"><li>• Oct 2010 – Sep 2016</li></ul>
Data Status	<ul style="list-style-type: none"><li>• Currently government owns a majority of data, exception is BREWT data</li></ul>
Milestones	<ul style="list-style-type: none"><li>• Contract award need date: no later than 30 June 2010</li></ul>



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# T25 Simulator for Electronic Combat Training

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## Summary of Program Requirements

- Provide Contractor Logistics Support for the T25 SECT to include on site support, TSSC operation and providing capability to perform Engineering Change Proposals

### Current Contract

Company: AAI Services Corp.  
Contract Number: F42630-00-C-0223  
Period of Performance: Jun 2000 – Sep 2010

### Original Developer/OEM

Company: AAI Services Corp.  
Date Delivered: 1989

### Current Installations

Locations: 563 Flying Training Squadron, Randolph AFB TX  
Number of Devices: 1 system at 1 site

### End User Point of Contact

Name: Bill Reynolds AETC/A3FC  
Phone: 210-652-9640 DSN 487-9640  
Email: [John.Reynolds@RANDOLPH.AF.MIL](mailto:John.Reynolds@RANDOLPH.AF.MIL)

### Additional Information

- BRAC decision to move system to Pensacola NAS Initial Operating Capability Spring 2010



U.S. AIR FORCE

# KC-135 AircREW Training System



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## Description

- A fully integrated simulator system used to provide ground based aircrew training, both academics and simulator training used for initial qualifications, re-qualifications, upgrade training, difference training, conversion training, the central flight instructor course, and selected continuation training
- Complete Contract Logistics Support (CLS) Support for aircrew training requirements, Operational Flight Trainer (OFT) moves required by BRAC, other requirements per Performance Work Specification (PWS), OM&S requirements for support of BOWST 1 & 2, and acquisition of BOWST 3 for refueling training

## Acquisition Strategy

- Full and Open
- 1 year with 8 one year options

## Funding

- Estimated total contract value \$450M

## Program Office Point of Contact

Name: Rick Garbett  
Organization: 507 ACSS/GFLC  
Phone: 801-777-7907  
Email: [rick.garbett@hill.af.mil](mailto:rick.garbett@hill.af.mil)

## Procurement Authority Point of Contact

Name: Lance Hardman  
Organization: 558 ACSV/PK  
Phone: 801-777-6292  
Email: [Lance.Hardman@HILL.af.mil](mailto:Lance.Hardman@HILL.af.mil)

## Period of Performance

- 1 Oct 2007 – 30 Sept 2010
- Currently serving under 3 year extension

## Data Status

- Awaiting completed Data Package for BOWST 1 & 2 to replace BOPTTs in Formal Training Unit at Altus.

## Milestones

- TBD



U.S. AIR FORCE



# KC-135 Aircrew Training System

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## Summary of Program Requirements

- Complete Contract Logistics Support (CLS) Support for Aircrew Training Requirements
- Operational Flight Trainer (OFT) Moves required by BRAC
- Other requirements per Performance Work Specification (PWS)
- OM&S requirements for support of BOWST 1 & 2
- Acquisition of BOWST 3 for refueling training

Current Contract	Original Developer/OEM
Company: FlightSafety Services Corp Contract Number: F33657-91-C-0072 Period of Performance: 1 Oct 92 – 30 Sep 10	Unknown
Current Installations	End User Point of Contact
Locations: Numerous CONUS and Overseas Number of Devices: Operational Flight Trainers (OFT) 17 CONUS, 2 Overseas; Boom Operator Part Task Trainer (BOPTT) 2 CONUS; Cargo Load Trainer (CLT) 1 CONUS	Name: Clifford Sanchez, AMC Training PM Phone: 618-229-3645 DSN 779-3645 Email: <a href="mailto:Clifford.Sanchez@scott.af.mil">Clifford.Sanchez@scott.af.mil</a>
Additional Information	



U.S. AIR FORCE



# C-5 Aircrew Training System

*Birthplace, Home and Future of Aerospace*

Description	<ul style="list-style-type: none"><li>Comprised of 9 Weapon System Trainers (WST), 4 Cockpit Procedure Trainers (CPT), 1 Cargo Load Trainer (CLT), 1 Ramp &amp; Door Trainer (RDT), and Computer Based Training Workstations (CBT)</li><li>Provide total aircrew training with the exception of on aircraft flight training</li><li>Provide for all operations, maintenance and sustainment of training devices and learning systems</li><li>Reliability Enhanced Re-engine Program (RERP) production devices will part of the competitive bid during the re-competition process.</li></ul>
Acquisition Strategy	<ul style="list-style-type: none"><li>Full and Open Competition</li></ul>
Funding	<ul style="list-style-type: none"><li>Estimated total contract value \$450M</li></ul>
Program Office Point of Contact	Name: Dale Schaffer Organization: 507 ACSS/GFLC Phone: 801-775-5123 Email: <a href="mailto:Dale.Schaffer@HILL.af.mil">Dale.Schaffer@HILL.af.mil</a>
Procurement Authority Point of Contact	Name: Lori Lloyd Organization: 558 ACSV/PK Phone: 801-777-7370 Email: lori.lloyd@hill.af.mil
Period of Performance	<ul style="list-style-type: none"><li>Oct FY10 – Sep FY19</li></ul>
Data Status	<ul style="list-style-type: none"><li>Some known proprietary data issues</li><li>Data package government owned</li></ul>
Milestones	<ul style="list-style-type: none"><li>Acquisition Strategy Plan will be available 3<sup>rd</sup> QTR FY08, Draft RFP 4<sup>th</sup> QTR FY08</li><li>Industry days are 2-3 April at Travis AFB and 9 -10 April at Lackland AFB additional visits will be planned</li><li>RFI released 7 March 2008</li></ul>



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# C-5 AircREW Training System

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## Summary of Program Requirements

- The C-5 Simulator System is comprised of 9 Weapon System Trainers (WST), 4 Cockpit Procedure Trainers (CPT), 1 Cargo Load Trainer (CLT), 1 Ramp & Door Trainer (RDT), and Computer Based Training Workstations (CBT)
- Contractor is responsible total aircrew training with the exception of on aircraft flight training
- Contractor is responsible for all operations, maintenance and sustainment of training devices and learning systems

Current Contract	Original Developer/OEM
Company: FlightSafety Services Corporation Contract Number: F42630-99-C-0170 Period of Performance: Oct 1999 – Sept 2009	Company: United Airlines Training Date Delivered: ~1985
Current Installations	End User Point of Contact
Locations: Dover AFB, DE, Travis AFB, CA; Lackland AFB, TX; Westover ARB, MA; Stewart ANGB, NY; Memphis ANGB, TN; Martinsburg ANGB, WV Number of Devices: 9 WSTs, 4 CPTs, 1 CLT, 1 RDT	Name: Denney Hughes Phone: 618-229-3583 Email: <a href="mailto:Denney.Hughes@scott.af.mil">Denney.Hughes@scott.af.mil</a>
Additional Information	



U.S. AIR FORCE



# C-130 Aircrew Training System

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Description	<ul style="list-style-type: none"><li>The Aircrew Training System (ATS) uses Aircrew Training Devices (ATDs) which include Weapon System Trainers (WSTs), Cockpit Procedures Trainers (CPTs), Cockpit Familiarization Trainers (CFTs), Fuselage Trainers (FuTs), and classroom curriculum to train C-130 aircrews. The ATS offers initial qualification, mission qualification, upgrade, differences, and continuation training.</li><li>The ATS trains students for AMC, ANG and AFRC at Little Rock AFB, Dyess AFB, McChord AFB, Minneapolis ANGB, Dobbins ARB. Classroom training is conducted at three remote sites; Elmendorf AFB, Alaska; Ramstein AB, Germany; and Yokota AB, Japan.</li></ul>		
Acquisition Strategy		Funding	
	<ul style="list-style-type: none"><li>Full and open competition</li></ul>		<ul style="list-style-type: none"><li>Estimated total contract value \$500M</li></ul>
Program Office Point of Contact		Procurement Authority Point of Contact	
Name: Lt Brendan Hochstein Organization: 507 ACSS/GFLC Phone: 801-777-5884 Email: brendan.hochstein@hill.af.mil	Name: Christy Marquardt Organization: 558 ACSG/PK Phone: 801-776-0029 Email: christy.marquardt@hill.af.mil		
Period of Performance		Data Status	
<ul style="list-style-type: none"><li>FY10 to FY19</li></ul>	<ul style="list-style-type: none"><li>Proprietary data throughout ATS</li><li>Complete Aero Data available</li></ul>		
Milestones	<ul style="list-style-type: none"><li>Industry Days Jun 08, Draft RFP Oct 08,</li><li>Contract Award 4Q FY09</li></ul>		



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# C-130 Aircrew Training System



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## Summary of Program Requirements

- Provide a training program which results in highly trained aircrews and maintenance personnel for C-130 weapon system operations.
- Provide Guaranteed Student Throughput with on time graduation and meet projected throughput/availability requirements to meet Air Force standards and pass an Air Force administered test. This includes provisions for variations in quantity of students and content of training.
- Effective management of the overall Aircrew Training System (ATS), including ongoing efforts, problem identification and resolution, special projects, reporting and communication, startup transition, security and safety.
- Maintain ATS concurrency with the weapon system program. This includes the capability to incorporate highly technical modifications into the aircrew training devices and the ability to modify/upgrade training devices/courseware/software prior to the aircraft upgrades.
- Effectively manage and operate the Training System Support Centers (TSSC) at Little Rock AFB and Dobbins ARB, to include the appropriate manning levels to complete Design Requests (DRs) in a timely manner.
- Provide a Quality Assurance (QA) program that is equivalent to ISO 9001, and promotes continuous improvements in the ATS. The QA program should also be independent from the work or production organization, and insure contract compliance.

Current Contract	Original Developer/OEM
Company: Lockheed Martin Simulation, Training & Support Contract Number: F42630-99-C-0195 Period of Performance: FY00 – FY09	Company: LINK for E models; Hughes for H2, H3 Date Delivered: 1980; 1998
Current Installations	End User Point of Contact
Little Rock AFB, Dyess AFB, McChord AFB, Minneapolis ANGB, Dobbins ARB; Remotes at Elmendorf AFB, Alaska; Yakota AB, Japan; Ramstein AB, Germany 20 Major Devices with multiple small training systems	Lt Col Edward Ganis 501-987-6822 <a href="mailto:edward.ganis@littlerock.af.mil">edward.ganis@littlerock.af.mil</a>
Additional Information	

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# AFRL

## Warfighter Readiness Research

**U.S. AIR FORCE**



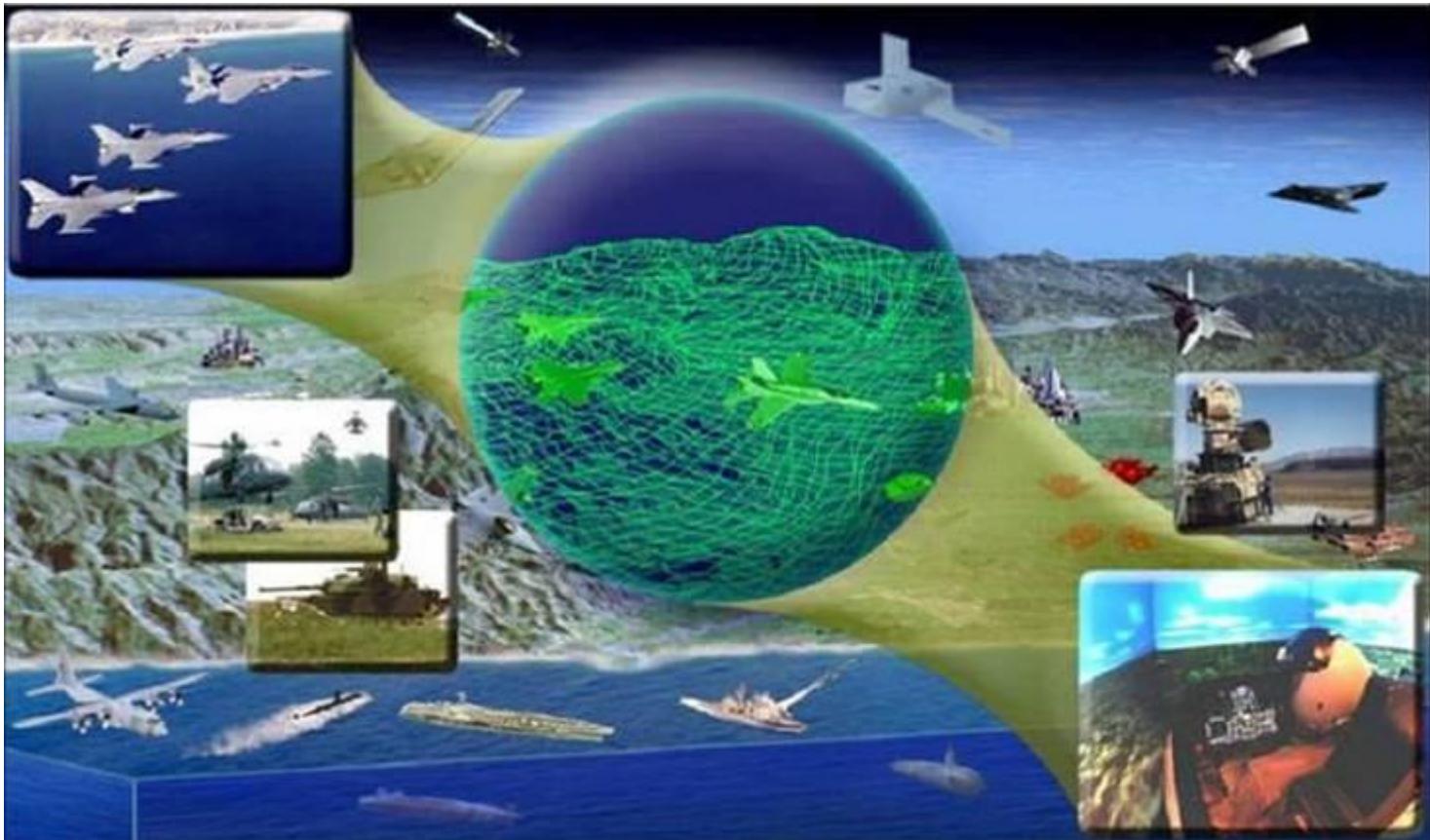
# Warfighter Readiness Research Division



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Research, demonstrate, and transition leading-edge human performance methods and technologies that provide the Warfighter the necessary knowledge and skills to **dominate the decision environment**





# Mission Effective Performance

## Core Technology Areas

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### Immersive Environment

Live, Virtual, &  
Constructive  
Modeling &  
Simulation



### Continuous Leaning

Performance  
Measurement



Immersive  
Technologies

Training &  
Rehearsal

### Cognitive Modeling



Computational  
Replicates



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# Mission Effective Performance

## Relocation in 2011

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2007



- Move Mission Effective Performance laboratories
  - 45,000 square feet of lab space
  - Flexible design
- Consolidate division scientists and engineers in single building
- Integrate with other on-base laboratories

2011





# Warfighter Readiness Training Research Contract

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Contract Type: CPFF, IDIQ, Multiple Delivery Orders

Ordering Period Ends: July 2010

Performance Ends: January 2012

Ceiling: \$300M

Place of Performance: Mesa, Arizona ([www.mesa.afmc.af.mil](http://www.mesa.afmc.af.mil))

Predicted BRAC Move to WPAFB: September 2011

POC: Jay Carroll (711 HPW/RHAO)

480-988-6561 x148

[jay.carroll@mesa.afmc.af.mil](mailto:jay.carroll@mesa.afmc.af.mil)

L3/Lockheed Martin/Boeing

Description	Benefits to the Warfighter
On-demand integration of live, virtual, and constructive systems to immerse the warfighter in realistic operational environments	<ul style="list-style-type: none"><li>• Immersive, theater level, integrated training and rehearsal systems</li><li>• Mission rehearsal based on rapid integration of tactical information</li><li>• Theater-level performance measurement &amp; assessment</li><li>• Enhanced training realism</li><li>• Reduced cost and overhead associated with DMO training &amp; rehearsal</li><li>• Reduced footprint and more efficient reachback</li></ul>
Technologies	
<ul style="list-style-type: none"><li>• Rapid database and scenario development</li><li>• Models of human learning and effectiveness</li><li>• DMO performance measurement &amp; assessment</li><li>• C4ISR live/simulation linkage and recovery</li><li>• Distributed event integration &amp; management</li><li>• Distributed system reliability &amp; security</li></ul>	



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# Questions ?